Refine Search

Search Results -

Terms	Documents
L9 or L8	56

US Pre-Grant Publication Full-Text Database

US Patents Full-Text Database

US OCR Full-Text Database

Database: EPO Abstracts Database

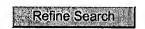
JPO Abstracts Database

Derwent World Patents Index

IBM Technical Disclosure Bulletins

Search:

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Search History

DATE: Wednesday, April 14, 2004 Printable Copy Create Case

Set Name	Query	Hit Count	Set Name
side by side		·	result set
DB=PGP	B, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=YMAR, SPAR, SP	ES; OP=ADJ	
<u>L10</u>	L9 or 18	56	<u>L10</u>
<u>L9</u>	L7 and terephthalic.ti.	41	<u>L9</u>
<u>L8</u>	L7 and carboxylic.ti.	15	<u>L8</u>
<u>L7</u>	L6 and py<2002	137	<u>L7</u>
<u>L6</u>	L5 and 562/\$	137	<u>L6</u>
<u>L5</u>	L4 and (filter or centrifuge)	1034	<u>L5</u>
<u>L4</u>	L3 and separat\$6	1856	<u>L4</u>
<u>L3</u>	L2 and 11	2267	<u>L3</u>
<u>L2</u>	terephthalic acid or carboxylic acid	409304	<u>L2</u>
<u>L1</u>	terephthalic acid and slurry and b and color	2267	<u>L1</u>

END OF SEARCH HISTORY

Generate Collection , Print Fwd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 1 through 10 of 56 returned.

☐ 1. Document ID: US 20020028968 A1

Using default format because multiple data bases are involved.

L10: Entry 1 of 56

File: PGPB

Mar 7, 2002

Oct 23, 2001

PGPUB-DOCUMENT-NUMBER: 20020028968

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020028968 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Graham, Derek Alexander Cleveland GB Hamley, Paul Anthony Nottingham GB Ilkenhans, Thomas Cambridge GB Oliver, Raymond Stockton on Tees GB Poliakoff, Martyn Nottingham GB Woodcock, Duncan C. Cheshire GB

US-CL-CURRENT: 562/415

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KAMC	Drawt De
											-	
			/ TD	TTO (2	10000 D1							
	2. I	ocume	nt ID:	US 63	10239 B1							

US-PAT-NO: 6310239

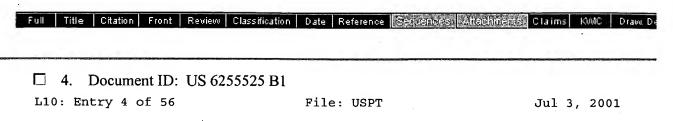
DOCUMENT-IDENTIFIER: US 6310239 B1

TITLE: Process for manufacturing terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw, D
77			······································									
	2 1	Docume	of ID.	TTC (20	7000 D1							
L	J. 1	Docume	ILID.	02 030	7099 BI							

DOCUMENT-IDENTIFIER: US 6307099 B1

TITLE: Production of terephthalic acid

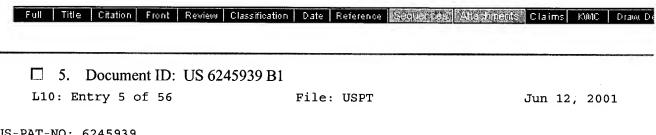


US-PAT-NO: 6255525

DOCUMENT-IDENTIFIER: US 6255525 B1

** See image for Certificate of Correction **

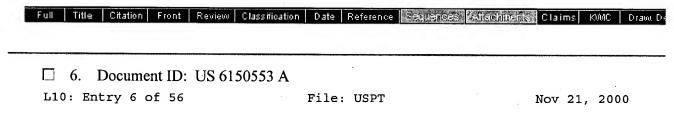
TITLE: Process for preparing purified carboxylic acids



US-PAT-NO: 6245939

DOCUMENT-IDENTIFIER: US 6245939 B1

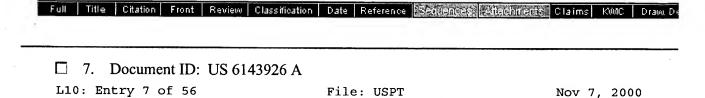
TITLE: Process for producing highly pure aromatic carboxylic acids



US-PAT-NO: 6150553

DOCUMENT-IDENTIFIER: US 6150553 A

TITLE: Method for recovering methyl acetate and residual acetic acid in the production acid of pure terephthalic acid

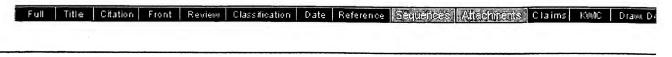


US-PAT-NO: 6143926

DOCUMENT-IDENTIFIER: US 6143926 A

TITLE: Process for producing pure terephthalic acid with improved recovery of

precursors, solvent and methyl acetate



□ 8. Document ID: US 6124455 A

L10: Entry 8 of 56

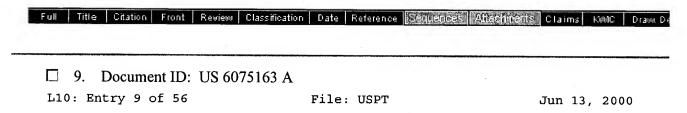
File: USPT

Sep 26, 2000

US-PAT-NO: 6124455

DOCUMENT-IDENTIFIER: US 6124455 A

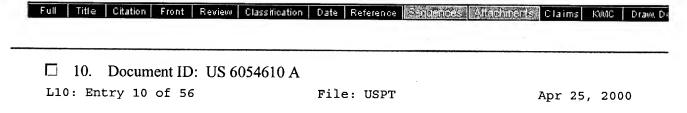
TITLE: Aryl or heteroaryl amides of tetrahydronaphthalene, chroman, thiochroman and 1,2,3,4-tetrahydroquinoline carboxylic acids, having an electron withdrawing substituent in the aromatic or heteroaromatic moiety, having retinoid-like biological activity



US-PAT-NO: 6075163

DOCUMENT-IDENTIFIER: US 6075163 A

TITLE: Process for manufacturing terephthalic acid

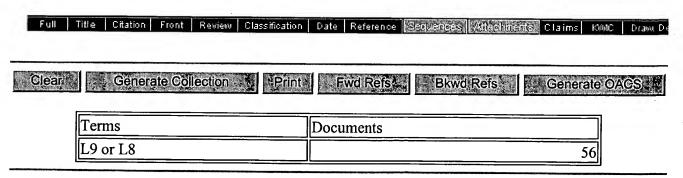


US-PAT-NO: 6054610

DOCUMENT-IDENTIFIER: US 6054610 A

** See image for Certificate of Correction **

TITLE: Method and apparatus for preparing purified terephthalic acid and isophthalic acid from mixed xylenes



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Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 11 through 20 of 56 returned.

☐ 11. Document ID: US 6034269 A

Using default format because multiple data bases are involved.

L10: Entry 11 of 56

File: USPT

Mar 7, 2000

US-PAT-NO: 6034269

DOCUMENT-IDENTIFIER: US 6034269 A

TITLE: Process for producing pure carboxylic acids

DATE-ISSUED: March 7, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Turner; John Arthur

North Yorkshire

GB

Woodcock; Duncan Charles

Warrington

.

GB

US-CL-CURRENT: <u>562/412</u>; <u>562/414</u>, <u>562/485</u>, <u>562/486</u>

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KMC Draw. De

☐ 12. Document ID: US 6031128 A

L10: Entry 12 of 56

File: USPT

Feb 29, 2000

US-PAT-NO: 6031128

DOCUMENT-IDENTIFIER: US 6031128 A

TITLE: Process for manufacturing terephthalic acid

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw, De

☐ 13. Document ID: US 5973196 A

L10: Entry 13 of 56

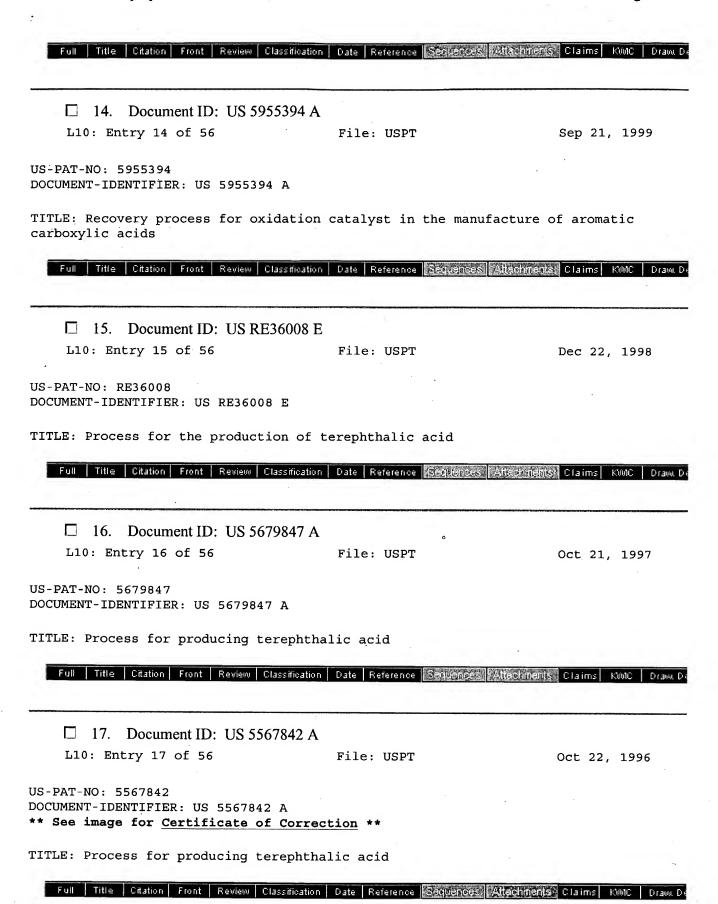
File: USPT

Oct 26, 1999

US-PAT-NO: 5973196

DOCUMENT-IDENTIFIER: US 5973196 A

TITLE: Process for producing purified terephthalic acid



☐ 18. Document ID: US 5413681 A

L10: Entry 18 of 56

File: USPT

May 9, 1995

US-PAT-NO: 5413681

DOCUMENT-IDENTIFIER: US 5413681 A

TITLE: Process for the recovery of terephthalic acid and ethylene glycol from poly

(ethylene terephthalate)



☐ 19. Document ID: US 5354898 A

L10: Entry 19 of 56

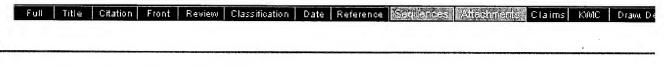
File: USPT

Oct 11, 1994

US-PAT-NO: 5354898

DOCUMENT-IDENTIFIER: US 5354898 A

TITLE: Method for purifying crude aromatic carboxylic acids



☐ 20. Document ID: US 5304676 A

L10: Entry 20 of 56

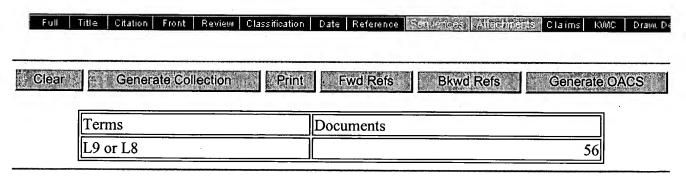
File: USPT

Apr 19, 1994

US-PAT-NO: 5304676

DOCUMENT-IDENTIFIER: US 5304676 A

TITLE: Process for the production of terephthalic acid



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Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 21 through 30 of 56 returned.

☐ 21. Document ID: US 5200557 A

Using default format because multiple data bases are involved.

L10: Entry 21 of 56

File: USPT

Apr 6, 1993

US-PAT-NO: 5200557

DOCUMENT-IDENTIFIER: US 5200557 A

TITLE: Process for preparation of crude terephthalic acid suitable for reduction to

prepare purified terephthalic acid

DATE-ISSUED: April 6, 1993

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Dec 29, 1992

Gee; John C.

Aurora

ΙL

Rosenfeld; Jeffrey I.

Schaumburg

TT.

Bartos; Thomas M.

Wheaton

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m IL}$

US-CL-CURRENT: <u>562/486</u>; <u>562/414</u>, <u>562/487</u>, <u>562/608</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	State VICTORIAN	Attachments	Claims	KWIC	Draw. De
	22.	Docum	ent ID	: US 5	175355 A							

File: USPT

US-PAT-NO: 5175355

DOCUMENT-IDENTIFIER: US 5175355 A

L10: Entry 22 of 56

** See image for Certificate of Correction **

TITLE: Improved process for recovery of purified terephthalic acid

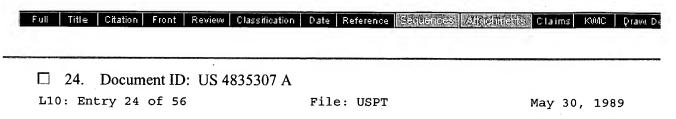
Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Kowo	Drawi D
	23.	Docum	ent ID	: US 5	095145 A						***************************************	
L10	: Ent	ry 23	of 56			File	e: USPT			Mar 1), 1	992

US-PAT-NO: 5095145

DOCUMENT-IDENTIFIER: US 5095145 A

** See image for Certificate of Correction **

TITLE: Preparation of purified terephthalic acid from waste polyethylene terephthalate



US-PAT-NO: 4835307

DOCUMENT-IDENTIFIER: US 4835307 A

** See image for Certificate of Correction **

TITLE: Method and apparatus for controlling the manufacture of terephthalic acid to control the level and variability of the contaminant content and the optical density

Full	Title Cita	tion Front	Review	Classification	Date	Reference	Sequences	Alladinents	Clain	ns k	100C	Draw, De
	25. Do	cument II	D: US 4	675438 A								
L10	: Entry	25 of 5	6		File	: USPT			Jun	23,	1987	7

US-PAT-NO: 4675438

DOCUMENT-IDENTIFIER: US 4675438 A

** See image for Certificate of Correction **

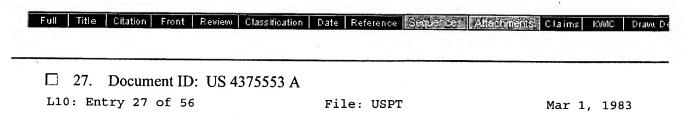
TITLE: Direct continuous flow integration of production and purification of high purity iso- or terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Section	Attachments:	Clai	ms	KMC	Draw. D
Constitution of the last of th													
	26	Dagum	omt ID	. TIC 4	(2505(A						***************************************		***************************************
	26.	Docum	ent ID	: US 4	625056 A								

US-PAT-NO: 4625056

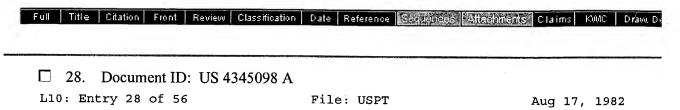
DOCUMENT-IDENTIFIER: US 4625056 A

TITLE: Process for producing benzene carboxylic acids from aromatic material utilizing an aliphatic organic acid agent



DOCUMENT-IDENTIFIER: US 4375553 A

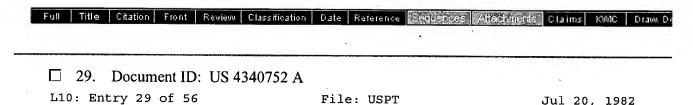
TITLE: Process for producing benzene carboxylic acid salts from aromatic materials



US-PAT-NO: 4345098

DOCUMENT-IDENTIFIER: US 4345098 A

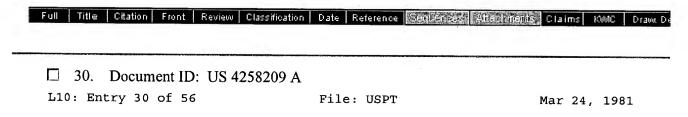
TITLE: Process for producing benzene carboxylic acid salts and their acids



US-PAT-NO: 4340752

DOCUMENT-IDENTIFIER: US 4340752 A

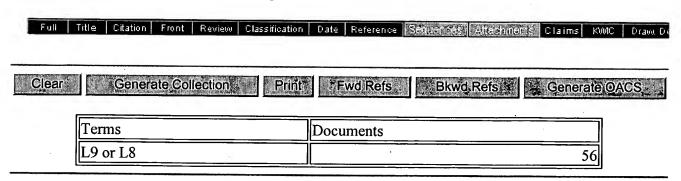
TITLE: Process for the purification of terephthalic acid



US-PAT-NO: 4258209

DOCUMENT-IDENTIFIER: US 4258209 A

TITLE: Process for preparing terephthalic acid



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Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 31 through 40 of 56 returned.

☐ 31. Document ID: US 4201871 A

Using default format because multiple data bases are involved.

L10: Entry 31 of 56

File: USPT

May 6, 1980

US-PAT-NO: 4201871

DOCUMENT-IDENTIFIER: US 4201871 A

TITLE: Process for recovering terephthalic acid

DATE-ISSUED: May 6, 1980

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Tanouchi; Masatoshi Nobeoka JP Takeuchi; Hiroshi Nobeoka JP Ban; Kazuki Nobeoka J₽ Asahina; Yoshiyuki Nobeoka JΡ

US-CL-CURRENT: <u>562/486</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw D

32. Document ID: US 4185073 A

L10: Entry 32 of 56 File: USPT Jan 22, 1980

US-PAT-NO: 4185073

DOCUMENT-IDENTIFIER: US 4185073 A

** See image for Certificate of Correction **

TITLE: Apparatus for iso- or terephthalic acid production in and recovery from benzoic acid-water solvent system

Full Title Citation Front Review Classification Date Reference Sequences Attachinemiss Claims KMC Draw. De

☐ 33. Document ID: US 4158738 A

L10: Entry 33 of 56

File: USPT

Jun 19, 1979

DOCUMENT-IDENTIFIER: US 4158738 A

** See image for Certificate of Correction **

TITLE: Process for the production of fiber-grade terephthalic acid

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Drawl Do

34. Document ID: US 4081464 A

L10: Entry 34 of 56 File: USPT Mar 28, 1978

US-PAT-NO: 4081464

DOCUMENT-IDENTIFIER: US 4081464 A

** See image for Certificate of Correction **

TITLE: Iso- or terephthalic acid production in and recovery from benzoic acid-water

solvent system



13. Document 1D. US 4033300 A

L10: Entry 35 of 56

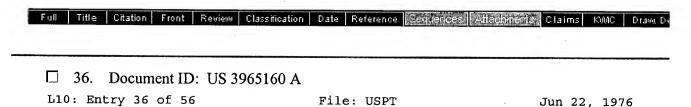
File: USPT

Oct 11, 1977

US-PAT-NO: 4053506

DOCUMENT-IDENTIFIER: US 4053506 A

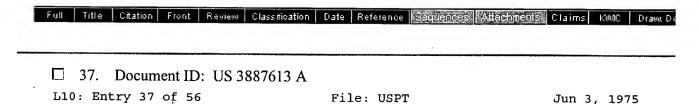
TITLE: Production of fiber-grade terephthalic acid



US-PAT-NO: 3965160

DOCUMENT-IDENTIFIER: US 3965160 A

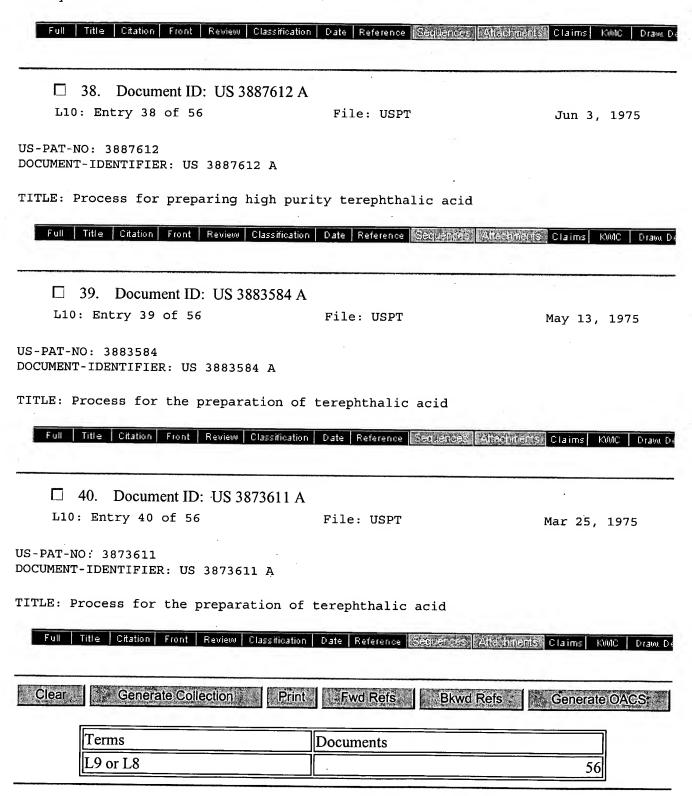
TITLE: Removal of iron impurities from aromatic carboxylic acids



US-PAT-NO: 3887613

DOCUMENT-IDENTIFIER: US 3887613 A

TITLE: Thermal purification of terephthalic acid using group I-B, II-B, VIII catalysts



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Search Results - Record(s) 41 through 50 of 56 returned.

☐ 41. Document ID: US 3862218 A

Using default format because multiple data bases are involved.

L10: Entry 41 of 56

File: USPT

Jan 21, 1975

US-PAT-NO: 3862218

DOCUMENT-IDENTIFIER: US 3862218 A

TITLE: PURIFICATION OF TEREPHTHALIC ACID BY THERMAL TREATMENT

DATE-ISSUED: January 21, 1975

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Stautzenberger; Adin L.

Corpus Christi

TX

......

US-CL-CURRENT: <u>562/486</u>

Full Title Citation Front Review Classification Date Reference Contents Claims KWIC Draw De 42. Document ID: US 3726914 A
L10: Entry 42 of 56 File: USPT Apr 10, 1973

US-PAT-NO: 3726914

DOCUMENT-IDENTIFIER: US 3726914 A

TITLE: PROCESS FOR THE PRODUCTION OF ARYL CARBOXYLIC ACIDS

Full Title Citation Front Review Classification Date Reference Scopences Attachments Claims RVMC Draw De

File: USOC

US-PAT-NO: 3850983

L10: Entry 43 of 56

DOCUMENT-IDENTIFIER: US 3850983 A

TITLE: SEPARATION OF TEREPHTHALIC FROM PARATOLUIC ACID FROM SOLUTIONS THEREOF IN WATER AND/OR ACETIC ACID

Nov 26, 1974

Record List Display

DATE-ISSUED: November 26, 1974

INVENTOR-NAME: PARK C

US-CL-CURRENT: 562/486; 23/296, 562/487

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw Decreased Attachments Claims KWC Decreased Attachments Claims KWC Decreased Attachments Claims KWC Decreased Attachments Claims KWC Decreased Attachments Claims Claims KWC Decreased Attachments Claims Cl

US-PAT-NO: 3708532

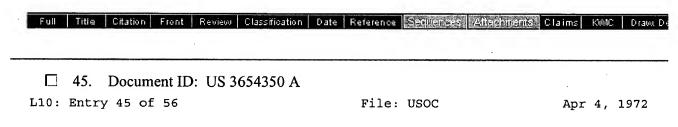
DOCUMENT-IDENTIFIER: US 3708532 A

TITLE: PROCESS FOR THE CONTINUOUS PURIFICATION OF CRUDE TEREPHTHALIC ACID

DATE-ISSUED: January 2, 1973

INVENTOR-NAME: TOKASHIKI M; ICHIKAWA Y

US-CL-CURRENT: 562/486



US-PAT-NO: 3654350

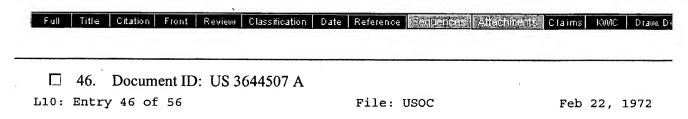
DOCUMENT-IDENTIFIER: US 3654350 A

TITLE: PURIFICATION OF TEREPHTHALIC ACID

DATE-ISSUED: April 4, 1972

INVENTOR-NAME: BLAY JORGE A; WITT ENRIQUE R

US-CL-CURRENT: 562/487



US-PAT-NO: 3644507

DOCUMENT-IDENTIFIER: US 3644507 A

TITLE: THERMAL PURIFICATION OF TEREPHTHALIC ACID USING IODINE OR BROMINE CATALYSTS

DATE-ISSUED: February 22, 1972

INVENTOR-NAME: BLAY JORGE A; WITT ENRIQUE R

US-CL-CURRENT: 562/486, 562/487



☐ 47. Document ID: US 3592848 A

L10: Entry 47 of 56

File: USOC

Jul 13, 1971

US-PAT-NO: 3592848

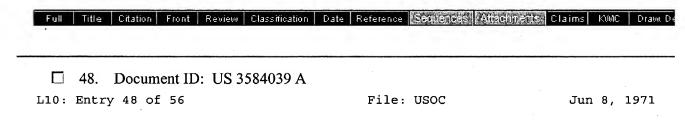
DOCUMENT-IDENTIFIER: US 3592848 A

TITLE: METHOD OF PURIFYING TEREPHTHALIC ACID

DATE-ISSUED: July 13, 1971

INVENTOR-NAME: FRANKEL IRWIN; STEWART GEORGE; WINSTROM LEON O

US-CL-CURRENT: 562/486



US-PAT-NO: 3584039

DOCUMENT-IDENTIFIER: US 3584039 A

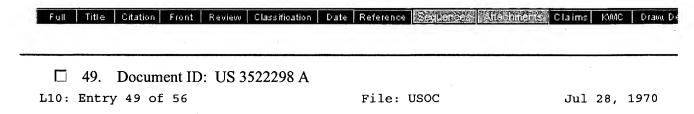
TITLE: FIBER-GRADE TEREPHTHALIC ACID BY CATALYTIC HYDROGEN TREATMENT OF DISSOLVED

IMPURE TEREPHTHALIC ACID

DATE-ISSUED: June 8, 1971

INVENTOR-NAME: MEYER DELBERT H

US-CL-CURRENT: 562/486; 562/487



US-PAT-NO: 3522298

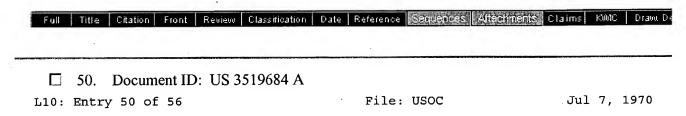
DOCUMENT-IDENTIFIER: US 3522298 A

TITLE: TEREPHTHALIC ACID PURIFICATION PROCESS

DATE-ISSUED: July 28, 1970

INVENTOR-NAME: REMSBERG ALBERT L; BRYANT HOWARD S JR ; DUVAL CLAIBORNE A JR

US-CL-CURRENT: <u>562/487</u>



US-PAT-NO: 3519684

DOCUMENT-IDENTIFIER: US 3519684 A

TITLE: PREPARATION OF AROMATIC DISUBSTITUTED CARBOXYLIC ACIDS

DATE-ISSUED: July 7, 1970

INVENTOR-NAME: CAVE JAMES PATRICK; WITT ENRIQUE ROBERTO ; ZEE-CHENG KWANG YUEN

US-CL-CURRENT: <u>562/417</u>

Full	Title Citation	Front	Review	Classification	Date	Reference	EGEV	机制制	Mes	masike	Claims	KAMC	Draw, D
· Clear	Genera	ate Colle	ection	Paint	F	wd Refs		Bkwd	Refs		Gener	ate OA	cs.
	Terms				Docu	ments							
	L9 or L8											56	

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Search Results - Record(s) 51 through 56 of 56 returned.

☐ 51. Document ID: US 3431243 A

Using default format because multiple data bases are involved.

L10: Entry 51 of 56

File: USOC

Mar 4, 1969

US-PAT-NO: 3431243

DOCUMENT-IDENTIFIER: US 3431243 A

TITLE: PROCESS FOR PREPARATION OF POLY(ETHYLENE TERPHTHALATE) FROM COMPRESSED

TEREPHTHALIC ACID

DATE-ISSUED: March 4, 1969

INVENTOR-NAME: UNO FUMIO; UNO SEIJI ; KAZAMA SEIJI

US-CL-CURRENT: <u>528/302</u>, <u>528/305</u>, <u>528/308.3</u>, <u>528/308.5</u>, <u>528/308.8</u>, <u>528/309.1</u>,

<u>560/55</u>, <u>560/84</u>, <u>560/85</u>, <u>560/90</u>, <u>560/94</u>, <u>562/480</u>

Full Title Citation Front Review Classification Date Reference Sections Altachments Claims RWIC Draw Do

52. Document ID: US 3405171 A

L10: Entry 52 of 56 File: USOC Oct 8, 1968

US-PAT-NO: 3405171

DOCUMENT-IDENTIFIER: US 3405171 A

TITLE: Oxidation of alkylnaphthalenes to naphthalene carboxylic acids

DATE-ISSUED: October 8, 1968

INVENTOR-NAME: ROBERTS EDWARD S; LOUISE CHRISTMANN

US-CL-CURRENT: <u>562/410</u>, <u>549/232</u>, <u>552/208</u>, <u>552/292</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 53. Document ID: US 3102137 A

L10: Entry 53 of 56

File: USOC

Aug 27, 1963

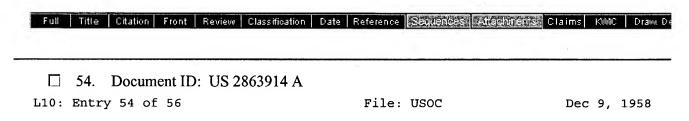
DOCUMENT-IDENTIFIER: US 3102137 A

TITLE: Purification of terephthalic acid

DATE-ISSUED: August 27, 1963

INVENTOR-NAME: WISE ROBERT H; MEYER DELBERT H

US-CL-CURRENT: <u>562/480</u>, <u>562/486</u>, <u>562/487</u>



US-PAT-NO: 2863914

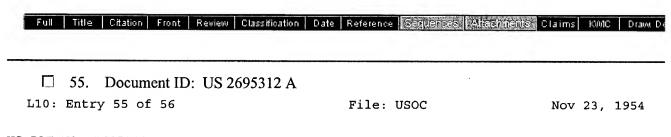
DOCUMENT-IDENTIFIER: US 2863914 A

TITLE: Process for converting phthalic acid into terephthalic acid

DATE-ISSUED: December 9, 1958

INVENTOR-NAME: BERNHARD RAECKE

US-CL-CURRENT: 562/482; 560/98



US-PAT-NO: 2695312

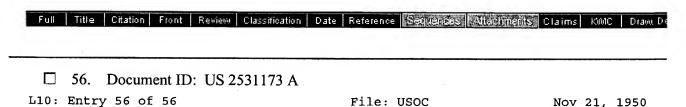
DOCUMENT-IDENTIFIER: US 2695312 A

TITLE: Preparation of aromatic carboxylic acids

DATE-ISSUED: November 23, 1954

INVENTOR-NAME: TOLAND JR WILLIAM G

US-CL-CURRENT: 562/411; 562/483, 564/152, 564/156, 568/800



DOCUMENT-IDENTIFIER: US 2531173 A

TITLE: Preparation of terephthalic acid

DATE-ISSUED: November 21, 1950

INVENTOR-NAME: TOLAND JR WILLIAM G

US-CL-CURRENT: 562/412

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachr	neriki Claim	s KWMC	Drawt De
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	Ter	ms				Docu	ments					
	ΤO	or L8									<u> </u>	

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